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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2022-09-03-07** **Date: 07-04-22**
Customer	:	Assistant Executive Engineer, N-2 (Project) Sub Division, BBMP,
Address	:	N-2 (Project) Sub Division, BBMP, Bangalore.
Project Name	:	Providing and Laying 300mm Dia RCC Line in place of Fully damaged 150mm Dia SW line at 3rd A Cross Road, Sharavath Road, 16th B Cross Road (White Topping Road) Yelahanka coming under Yelahanka Newtown S/Stn of AEE N-2 Sub Division
Agency	:	M/s NCC Limited, Prop, C Premachandar Reddy, #301, Batavia Chambers, 8, Kumara Krupa Road, Bangalore -01
Customer's Reference	:	EE(Project)/Ynk Zone/WO/24/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-04-22
Sample Type	:	Zuari 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11) 1988 IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4 4 IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6
Date of test	:	05-04-22
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.2	--
2	Finess by Air permeablity method (m^2/kg,Min)	249.5	225m^2/kg, Min
3	Density (gm/cc)	3.15	--
4	Standard Consistency (%)	27.5%	Not specified
5	Initial Setting time	170 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

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Note:

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2022-09-03-07** **Date: 04-05-22**
Customer	:	Assistant Executive Engineer, N-2 (Project) Sub Division, BBMP, Bangalore.
Address	:	N-2 (Project) Sub Division, BBMP, Bangalore.
Project Name	:	Providing and Laying 300mm Dia RCC Line in place of Fully damaged 150mm Dia SW line at 3rd A Cross Road, Sharavath Road, 16th B Cross Road (White Topping Road) Yelahanka coming under Yelahanka Newtown S/Stn of AEE N-2 Sub Division
Agency	:	M/s NCC Limited, Prop. C Premachandar Reddy, #301, Batavia Chambers, 8, Kumara Krupa Road, Bangalore -01
Customer's Reference	:	EE(Project)/Ynk Zone/WO/24/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-04-22
Sample Type	:	Zuari 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
Date of test	:	05-04-22
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	57.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-09-03-07** **Date: 07-04-22**
Customer	:	Assistant Executive Engineer, N-2 (Project) Sub Division, BBMP, Bangalore.
Address	:	N-2 (Project) Sub Division, BBMP, Bangalore.
Project Name	:	Providing and Laying 300mm Dia RCC Line in place of Fully damaged 150mm Dia SW line at 3rd A Cross Road, Sharavath Road, 16th B Cross Road (White Topping Road) Yelahanka coming under Yelahanka Newtown S/Stn of AEE N-2 Sub Division
Agency	:	M/s NCC Limited, Prop, C Premachandar Reddy, #301, Batavia Chambers, 8, Kumara Krupa Road, Bangalore -01
Customer's Reference	:	EE(Project)/Ynk Zone/WO/24/2021-22
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	04-04-22
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	04-04-22

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	423	423	2.8	97.2	90-100
3	20 mm	5852	6275	41.8	58.2	30-70
4	10 mm	4232	10507	70.0	30.0	10-35
5	4.75 mm	4225	14732	98.2	1.8	0-5
6	Pan	268	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-09-03-07** **Date: 07-04-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.3	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.5	
3	Specific Gravity	2.68	–
4	Bulk Density(Loose) (Kg/l)	1.56	–
5	Bulk Density(Compacted) (Kg/l)	1.59	–
6	Water Absorption(%)	0.21	–

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	CP-2022-09-03-07 **Date: 06-04-22**
Customer	:	Assistant Executive Engineer, N-2 (Project) Sub Division, BBMP, Bangalore.
Address	:	N-2 (Project) Sub Division, BBMP, Bangalore.
Project Name	:	Providing and Laying 300mm Dia RCC Line in place of Fully damaged 150mm Dia SW line at 3rd A Cross Road, Sharavath Road, 16th B Cross Road (White Topping Road) Yelahanka coming under Yelahanka Newtown S/Stn of AEE N-2 Sub Division
Agency	:	M/s NCC Limited, Prop, C Premachandar Reddy, #301, Batavia Chambers, 8, Kumara Krupa Road, Bangalore -01
Customer Reference	:	EE(Project)/Ynk Zone/WO/24/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-04-22
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	04-04-22

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	245	245	4.9	95.1	90-100
3	10 mm	2560	2805	56.1	43.9	25-55
4	4.75 mm	2033	4838	96.8	3.2	0-10
5	Pan	162	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-09-03-07** **Date: 06-04-22**

PHYSICAL PROPERTIES

SLno	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.6	
3	Specific Gravity	2.66	–
4	Bulk Density(Loose) (Kg/l)	1.54	–
5	Bulk Density(Compacted) (Kg/l)	1.58	–
6	Water Absorption(%)	0.22	–
7	Aggregate crushing Value(%)	24.5	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2022-09-03-07** **Date: 06-04-22**
Customer	:	Assistant Executive Engineer, N-2 (Project) Sub Division, BBMP, Bangalore.
Address	:	N-2 (Project) Sub Division, BBMP, Bangalore.
Project Name	:	Providing and Laying 300mm Dia RCC Line in place of Fully damaged 150mm Dia SW line at 3rd A Cross Road, Sharavath Road, 16th B Cross Road (White Topping Road) Yelahanka coming under Yelahanka Newtown S/Stn of AEE N-2 Sub Division
Agency	:	M/s NCC Limited, Prop, C Premachandar Reddy, #301, Batavia Chambers, 8, Kumara Krupa Road, Bangalore -01
Customer's Reference	:	EE(Project)/Ynk Zone/WO/24/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-04-22
Sample Type	:	Fine Aggregate(M.Sand)
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	04-04-22
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	86	86	8.6	91.4	90-100	90-100	90-100	95-100
3	2.36 mm	145	231	23.1	76.9	60-95	75-100	85-100	95-100
4	1.18 mm	156	387	38.7	61.3	30-70	55-90	75-100	90-100
5	600 micron	188	575	57.5	42.5	15-34	35-59	60-79	80-100
6	300 micron	175	750	75.0	25.0	5-20	8-30	12-40	15-50
7	150 micron	162	912	91.2	8.8	0-10	0-10	0-10	0-15
8	Pan	88	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2022-09-03-07** **Date: 06-04-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	2.4	_
2	Specific Gravity	2.59	_
3	Material finer than 75 micron(%)	7.3	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2022-09-03-07** **Date: 12-04-22**
Customer	:	Assistant Executive Engineer, N-2 (Project) Sub Division, BBMP, Bangalore.
Address	:	N-2 (Project) Sub Division, BBMP, Bangalore.
Project Name	:	Providing and Laying 300mm Dia RCC Line in place of Fully damaged 150mm Dia SW line at 3rd A Cross Road, Sharavath Road, 16th B Cross Road (White Topping Road) Yelahanka coming under Yelahanka Newtown S/Stn of AEE N-2 Sub Division
Agency	:	M/s NCC Limited, Prop, C Premachandar Reddy, #301, Batavia Chambers, 8, Kumara Krupa Road, Bangalore -01
Customer's Reference	:	EE(Project)/Ynk Zone/WO/24/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-04-22
Sample Type	:	Indus
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2019.
Date of test	:	11-04-22

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Indus	Fe415	12	0.885	502	648	21.0%	Satisfactory	Satisfactory

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TEST REPORT OF PHYSICAL REQUIREMENTS OF BRICKS

Lab ID	:	**CP-2022-09-03-07** **Date: 22-04-22**
Customer	:	Assistant Executive Engineer, N-2 (Project) Sub Division, BBMP, Bangalore.
Address	:	N-2 (Project) Sub Division, BBMP, Bangalore.
Project Name	:	Providing and Laying 300mm Dia RCC Line in place of Fully damaged 150mm Dia SW line at 3rd A Cross Road, Sharavath Road, 16th B Cross Road (White Topping Road) Yelahanka coming under Yelahanka Newtown S/Stn of AEE N-2 Sub Division
Agency	:	M/s NCC Limited, Prop. C Premachandar Reddy, #301, Batavia Chambers, 8, Kumara Krupa Road, Bangalore -01
Customer's Reference	:	EE(Project)/Ynk Zone/WO/24/2021-22
Source of sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-04-22
Identification Mark on Brick	:	Wire Cut Brick
Reference to BIS codes	:	IS 1077 : 1992 (RA 2021) Common Burnt Clay Building Bricks-Specification IS 3495 (Part 1 to 3) : 1992(RA 2019) Method of Tests Burnt Clay Building Bricks Part 1:Determination of Compressive Strength, (Cl 4.2.3) Part 2:Determination of Water Absorption,(Cl 4.1.3) Part 3: Determination of Efflorescence, (Cl 4)
Date of test	:	16-04-22

COMPRESSIVE STRENGTH

Sl.No.	Length (mm)	Breadth (mm)	Area (mm^2)	Failure Load (KN)	Compressive strength of individual bricks (N/mm^2)	Acceptablity as per IS 1077:1992, Clause 7.1
1	228.13	109.98	25090	201.2	8.0	The bricks shall have a minimum average compressive strength for various classes as given in Table 1 of IS 1077: 1992. The compressive strength of any individual bricks shall not fall below the minimum compressive strength specified for the corresponding class of brick by more than 15%.
2	228.98	108.62	24872	199.7	8.0	
3	231.01	107.99	24947	205.3	8.2	
4	230.11	107.54	24746	192.7	7.8	
5	228.16	106.98	24409	185.1	7.6	
Average of 5 bricks					**7.9**	

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Lab ID : **CP-2022-09-03-07** **Date: 22-04-22**

WATER ABSORPTION:

Sl.No.	Dry Weight	Wet Weight	Water Absorption(%)	Acceptablity as per IS 1077:1992, Clause 7.2
1	2.975	3.265	9.7	The water Absorption of bricks shall not be more than 20% by weight upto class 12.5 and 15% by weight for higher classes.
2	2.868	3.176	10.7	
3	2.906	3.196	10.0	
4	2.976	3.235	8.7	
5	2.875	3.158	9.8	
Average Water Absorption(%)			9.8	

EFFLORESCENCE:

Sl.No.	Length (mm)	Breadth (mm)	Area (mm^2)	Efflorescence	Acceptablity as per IS 1077:1992, Clause 7.3
1	229.18	108.98	24976	Moderate	The efflorescence shall not be more than 'moderate" upto class 12.5 and "slight" for higer classes.
2	228.98	109.18	25000	Moderate	
3	228.18	108.39	24732	Slight	
4	230.19	107.98	24856	Moderate	
5	228.13	109.19	24910	Slight	

DIMENSIONS AND TOLERANCES

Sl.No.	Dimensions obtained for 20 bricks(mm)		Acceptability as per IS 1077:1992, Clause 6.2(b)
1	Length	4615	4520 to 4680 mm
2	Width	2185	2160 to 2240 mm
3	Height	1395	1360 to 1440 mm

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2022-09-03-07** **Date: 05/05/2022**
Customer	:	Assistant Executive Engineer, N-2 (Project) Sub Division, BBMP, Bangalore.
Address	:	N-2 (Project) Sub Division, BBMP, Bangalore.
Project Name	:	Providing and Laying 300mm Dia RCC Line in place of Fully damaged 150mm Dia SW line at 3rd A Cross Road, Sharavath Road, 16th B Cross Road (White Topping Road) Yelahanka coming under Yelahanka Newtown S/Stn of AEE N-2 Sub Division
Agency	:	M/s NCC Limited, Prop, C Premachandar Reddy, #301, Batavia Chambers, 8, Kumara Krupa Road, Bangalore -01
Customer's Reference	:	EE(Project)/Ynk Zone/WO/24/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-04-22
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	05/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	PCC	M15	28/04/2022	05/05/2022	149.83 X 150.99 X 151.53	22623	8.632	271.1	12.0	12.1
2	PCC	M15	28/04/2022	05/05/2022	150.14 X 151.15 X 150.16	22694	8.970	278.5	12.3	
3	PCC	M15	28/04/2022	05/05/2022	150.79 X 150.02 X 150.19	22621	8.258	270.0	11.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-09-03-07** **Date: 26/05/2022**

Customer : Assistant Executive Engineer, N-2 (Project) Sub Division, BBMP, Bangalore.

Address : N-2 (Project) Sub Division, BBMP, Bangalore.

Project Name : Providing and Laying 300mm Dia RCC Line in place of Fully damaged 150mm Dia SW line at 3rd A Cross Road, Sharavath Road, 16th B Cross Road (White Topping Road) Yelahanka coming under Yelahanka Newtown S/Stn of AEE N-2 Sub Division

Agency : M/s NCC Limited, Prop, C Premachandar Reddy, #301, Batavia Chambers, 8, Kumara Krupa Road, Bangalore -01

Customer's Reference : EE(Project)/Ynk Zone/WO/24/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 30-04-22

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	PCC	M15	28/04/2022	26/05/2022	150.47 X 150.42 X 150.92	22634	8.918	418.5	18.5	18.3
2	PCC	M15	28/04/2022	26/05/2022	150.83 X 149.53 X 151.86	22553	8.547	412.7	18.3	
3	PCC	M15	28/04/2022	26/05/2022	149.45 X 149.85 X 150.86	22396	8.114	404.4	18.1	

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

FOR CIVIL Pro.

CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

Format No: CP/TF/01

TEST REPORT ON NP3 RCC PIPES

Lab ID	:	**CP-2022-09-03-07** **Date: 21-05-22**
Customer	:	Assistant Executive Engineer, N-2 (Project) Sub Division, BBMP, Bangalore.
Address	:	N-2 (Project) Sub Division, BBMP, Bangalore.
Project Name	:	Providing and Laying 300mm Dia RCC Line in place of Fully damaged 150mm Dia SW line at 3rd A Cross Road, Sharavath Road, 16th B Cross Road (White Topping Road) Yelahanka coming under Yelahanka Newtown S/Stn of AEE N-2 Sub Division
Agency	:	M/s NCC Limited, Prop, C Premachandar Reddy, #301, Batavia Chambers, 8, Kumara Krupa Road, Bangalore -01
Customer's Reference	:	EE(Project)/Ynk Zone/WO/24/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-04-22
Sample Type/Size	:	NP3 RCC Pipe
Reference to BIS codes	:	IS 458 :2021
Date of test	:	21-05-22

DIMENSION ANALYSIS

Sl.no	Length mm	Diameter mm	Thickness mm	Requirement as per IS 458:2003
1	2498	301	31	Length : ± 25mm Diameter : ± 10mm Height : +6mm/-3mm
2	2510	300	32	
3	2498	301	32	
4	2500	302	30	
5	2500	310	29	
6	2498	300	30	
7	2497	301	31	
8	2500	300	30	
9	2500	304	30	
10	2500	300	30	

Asst. Executive Engineer, Project Division, Yelahanka Zone, BBMP, Bangalore - 92

CIVIL Pro Sig. Date BANGALORE

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Lab ID : CP-2022-09-03-07 **Date: 21-05-22**

COMPRESSIVE STRENGTH:

Sl. No.	cube		Area (mm^2)	Failure Load (KN)	Compressive strength N/mm^2	Remark
	D.O.C	D.O.T				
1	23-04-22	21-05-22	22150	822	37.1	Mix (M35) 28 Days
2	23-04-22	21-05-22	22350	816	36.5	
3	23-04-22	21-05-22	22400	824	36.8	

* The results obtained are satisfactory as per standard requirements.

Note:

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CIVIL Pro Sig. Date. BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92.

****End of Report****

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